STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/535,128A
Source: 1FWP
Date Processed by STIC: 8/14/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/535,128A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
11	Use of <220>	Sequence(s)____missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid

IFWP

RAW SEQUENCE LISTING DATE: 08/14/2006
PATENT APPLICATION: US/10/535,128A TIME: 12:39:05

Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw

```
 3 <110> APPLICANT: Collins, et. al
 5 <120> TITLE OF INVENTION: CIS/Trans Riboregulators
 7 <130> FILE REFERENCE: 0079571-0094
 9 <140> CURRENT APPLICATION NUMBER: 10/535,128A
10 <141> CURRENT FILING DATE: 2005-05-16
12 <160> NUMBER OF SEQ ID NOS: 59
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 11
18 <212> TYPE: DNA
19 <213> ORGANISM: Artificial
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Consensus sequence
24 <400> SEQUENCE: 1
25 gccgaccaug c                                                    11
28 <210> SEQ ID NO: 2
29 <211> LENGTH: 18
30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Consensus sequence
36 <400> SEQUENCE: 2
37 aggagggttt ttaccaug                                            18
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 19
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Cis-Repressive
48 <400> SEQUENCE: 3
49 ggacgcactg accgaattc                                            19
52 <210> SEQ ID NO: 4
53 <211> LENGTH: 20
54 <212> TYPE: DNA
55 <213> ORGANISM: Artificial
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Cis-Repressive
60 <400> SEQUENCE: 4
61 ctacctttct cctctttaat                                           20
64 <210> SEQ ID NO: 5
65 <211> LENGTH: 18
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial
```

pp 1-5

Does Not Comply
Corrected Diskette Needed

what is the source of genetic material? (see item 11 on Error Summary Sheet)

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Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw

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69 <220> FEATURE:
70 <223> OTHER INFORMATION: Cis-Repressive
72 <400> SEQUENCE: 5
73 ttctctagtc ctccttat                                              18
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 19
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Cis-Repressive
84 <400> SEQUENCE: 6
85 ctacctttct cctctagga                                              19
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 19
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Cis-Repressive
96 <400> SEQUENCE: 7
97 ctacctatct gctcttgaa                                              19
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 19
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Cis-Repressive
108 <400> SEQUENCE: 8
109 ctaccattca cctcttgga                                             19
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 16
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Cis-Repressive
120 <400> SEQUENCE: 9
121 ctaccattca cctgga                                                16
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 7
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Cis-Repressive
132 <400> SEQUENCE: 10
133 tttgggt                                                           7
136 <210> SEQ ID NO: 11
137 <211> LENGTH: 15
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial
141 <220> FEATURE:
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PATENT APPLICATION: US/10/535,128A TIME: 12:39:05

Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw

```
142 <223> OTHER INFORMATION: Cis-Repressive
144 <400> SEQUENCE: 11
145 attaaagagg agaaa                                                  15
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 42
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
156 <400> SEQUENCE: 12
157 ggagcactga ccgaattcat taaagaggag aaaggtacca tg                      42
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 51
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
168 <400> SEQUENCE: 13
169 ctacctttct cctctttaat tttgggtatt aaagaggaga aaggtaccat g            51
172 <210> SEQ ID NO: 14
173 <211> LENGTH: 47
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
180 <400> SEQUENCE: 14
181 ctctagtcct ccttattttg ggtattaaag aggagaaagg taccatg                 47
184 <210> SEQ ID NO: 15
185 <211> LENGTH: 50
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
192 <400> SEQUENCE: 15
193 ctacctttct cctctaggat ttgggtatta aagaggagaa aggtaccatg              50
196 <210> SEQ ID NO: 16
197 <211> LENGTH: 50
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Nuclear Acid sequence
204 <400> SEQUENCE: 16
205 ctacctatct gctcttgaat ttgggtatta aagaggagaa aggtaccatg              50
208 <210> SEQ ID NO: 17
209 <211> LENGTH: 50
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
```

do you mean "nucleic acid?" If so, this is insufficient. Give source of genetic material.

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Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw

```
216 <400> SEQUENCE: 17
217 ctaccattca cctcttggat ttgggtatta aagaggagaa aggtaccatg              50
220 <210> SEQ ID NO: 18
221 <211> LENGTH: 50
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs
228 <400> SEQUENCE: 18
229 ctaccattca cctcttggat ttgggtatta aagaggagaa aggtaccatg              50
232 <210> SEQ ID NO: 19
233 <211> LENGTH: 70
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Construct Sequence
240 <400> SEQUENCE: 19
241 acacccaaat taaagaggag aaaggtagtg gtggttaatg aaaattaact tactactacc    60
243 ttttcttaga                                                         70
246 <210> SEQ ID NO: 20
247 <211> LENGTH: 62
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Construct Sequence
254 <400> SEQUENCE: 20
255 acgccccaat aaggaggata gagtggtggt taatgaaaat taacttacta cttagtttta    60
257 ga                                                                 62
260 <210> SEQ ID NO: 21
261 <211> LENGTH: 69
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Construct Sequence
268 <400> SEQUENCE: 21
269 acacccaaat cctagggaga atggtagtgg tggttaatga aaattaactt actactactt    60
271 tttcataga                                                          69
274 <210> SEQ ID NO: 22
275 <211> LENGTH: 67
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Construct Sequence
282 <400> SEQUENCE: 22
283 acacccaaat tatgagcaga ttggtagtgg tggttaatga aaattaactt actactactt    60
285 tcttaga                                                            67
288 <210> SEQ ID NO: 23
289 <211> LENGTH: 71
290 <212> TYPE: DNA
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RAW SEQUENCE LISTING DATE: 08/14/2006
PATENT APPLICATION: US/10/535,128A TIME: 12:39:05

Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw

```
291 <213> ORGANISM: Artificial
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Construct Sequence
296 <400> SEQUENCE: 23
297 acccaaatcc aggaggtgat tggtagtggt ggttaatgaa aattaactta ctactaccat     60
299 atatctctag a                                                        71
302 <210> SEQ ID NO: 24
303 <211> LENGTH: 71
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Construct Sequence
310 <400> SEQUENCE: 24
311 acccaaatcc aggaggtgaa tggtagtggt ggttaatgaa aattaactta ctactaccat     60
313 atatctctag a                                                        71
316 <210> SEQ ID NO: 25
317 <211> LENGTH: 71
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Construct Sequence
324 <400> SEQUENCE: 25
325 acccaaatcc aagaggtgat tggtagtggt ggttaatgaa aattaactta ctactaccat     60
327 atatctctag a                                                        71
330 <210> SEQ ID NO: 26
331 <211> LENGTH: 76
332 <212> TYPE: DNA
333 <213> ORGANISM: Artificial
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Construct Sequence
338 <400> SEQUENCE: 26
339 acccaaatcc aaagaggtga atggtaagtg ggtggttaat gaaaattaac ttactactac     60
341 catatattct ctaaga                                                   76
344 <210> SEQ ID NO: 27
345 <211> LENGTH: 71
346 <212> TYPE: DNA
347 <213> ORGANISM: Artificial
349 <220> FEATURE:
350 <223> OTHER INFORMATION: Construct Sequence
352 <400> SEQUENCE: 27
353 acccaaatcc aggaggtgat tggtagtggt ggttaatgaa aattaactta ctaaaatcgg     60
355 acatctctag a                                                        71
358 <210> SEQ ID NO: 28
359 <211> LENGTH: 75
360 <212> TYPE: DNA
361 <213> ORGANISM: Artificial
363 <220> FEATURE:
364 <223> OTHER INFORMATION: Construct Sequence
366 <400> SEQUENCE: 28
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VERIFICATION SUMMARY DATE: 08/14/2006
PATENT APPLICATION: US/10/535,128A TIME: 12:39:07

Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\08142006\J535128A.raw